



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
January 14, 2009

IDEM ID Number:
2008-567-82-JWR-A

Closing Date:
February 3, 2009

Corps of Engineers ID Number:
LRL-2008-1365-mdh

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- | | | | |
|----------------------|--|------------------|---|
| 1. Applicant: | Mr. John Stoll
Vanderburgh County Engineer
Room 305 Civic Center Complex
1 N.W. Martin Luther King Jr. Blvd
Evansville, IN 47708 | 2. Agent: | Mr. Jeremy Keiffner
Bernadin Lochmueller and Associates
6200 Vogel Road
Evansville, IN 47715 |
|----------------------|--|------------------|---|
- 3. Project location:** Part of Sections 7, 11&18 Township 6 South and Section 31, Township 5 South, Range 11 West, Kasson USGS. The project begins at the existing northern terminus of University Parkway and proceeds north to SR 66.
- 4. Affected waterbody:** One emergent wetland and numerous streams
- 5. Project Description:** The applicant proposes to construct Phase 2 & 3 of the University Parkway which will be a 4-lane north-south connector road. The project will require the discharge of clean earthen fill material into 0.16 acre of emergent wetland and the installation of structures, riprap and the relocation of 4,305 linear feet of streams. As compensatory mitigation for wetland impacts, the applicant proposes to create approximately 0.40 acre of emergent wetland. As compensatory mitigation for stream impacts the applicant proposes to plant trees and shrubs along 1,560 linear feet of Little Creek and along the 2,037 linear feet of constructed stream channels. The applicant also proposes to mitigate 725 linear feet of stream in place with the construction of oversized culverts with natural stream bottoms left in place. The total riparian and bottomland forest creation will be approximately 10.78 acres and 2.68 acres of riparian corridor preservation. Of the 10.78 acres of forested mitigation approximately 8.0 acres is to compensate for failed mitigation attempts associated with Phase 1 of this project.

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Mr. Jason Randolph, Project Manager, at 317-233-0467. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
 100 North Senate Avenue
 MC65-42 WQS IGCN 1255
 Indianapolis, Indiana 46204-2251
 FAX: 317/232-8406

Table 1. University Parkway Water Resource Impacts (Phases II and III)

Wetland Impact #	Aquatic Type	Impact Length (linear feet)	Impact Area* (acre)
Wetland	Palustrine Emergent Wetland	N/A	0.16 acre
Stream Impact #1	Stream	75	0.01 acre
Stream Impact #2	Stream	550	0.03 acre
Stream Impact #3	Stream	250	0.03 acre
Stream Impact #4	Stream	150	0.01 acre
Stream Impact #5	Stream	475	0.01 acre
Stream Impact #6	Stream	400	0.15 acre
Stream Impact #7	Stream	620	0.03 acre
Little Creek Impact	Stream	415	0.43 acre
Stream Impact #8	Stream	370	0.08 acre
Stream Impact #9	Stream	650	0.03 acre
Stream Impact #10	Stream	250	0.01 acre
Stream Impact #11	Stream	100	0.02 acre

*Impact Area represents the stream area located below the Ordinary High Water Mark (OHWM)

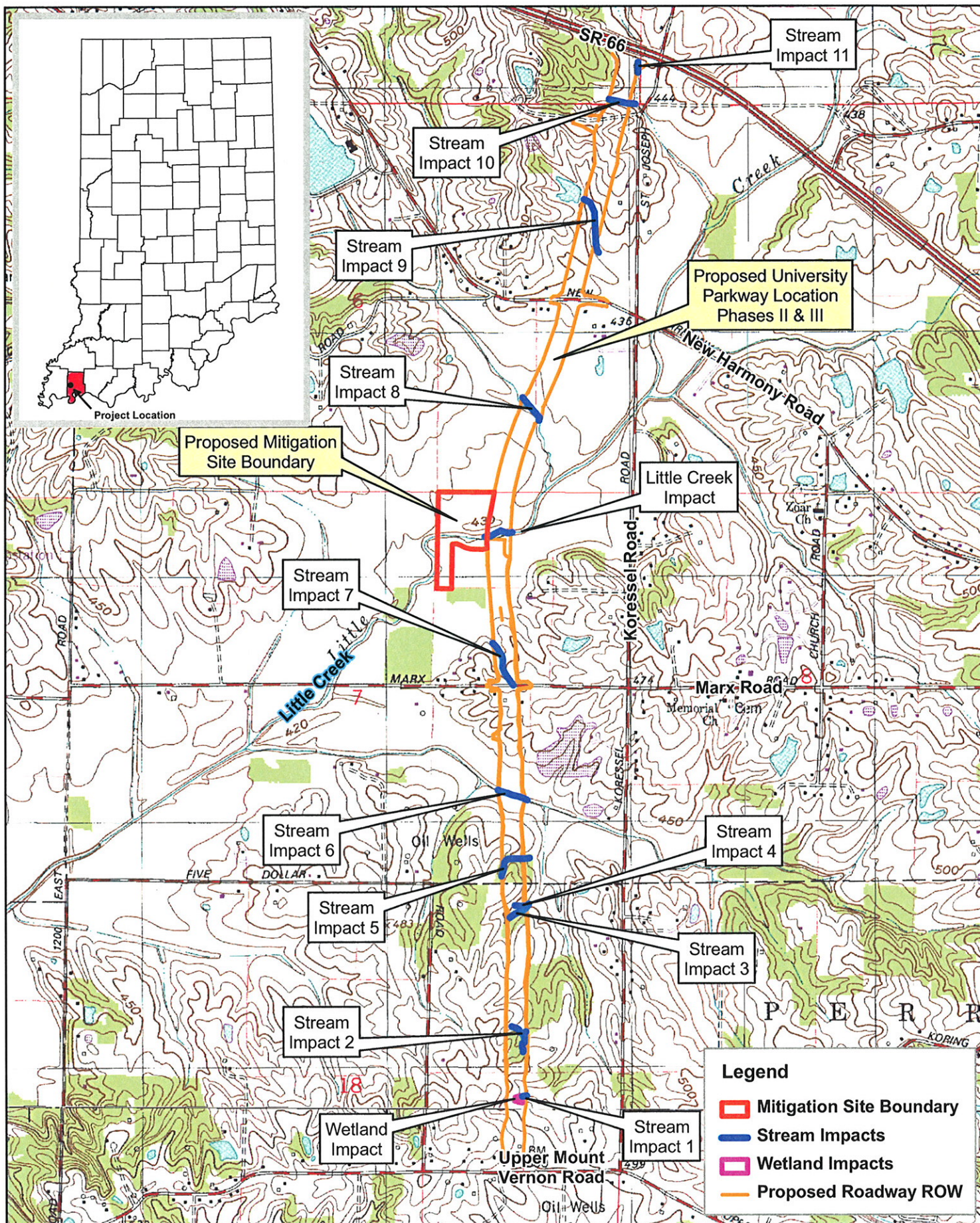
Table 3. University Parkway Impact and Target Mitigation Summary

Habitat Type	University Parkway Wetland and Stream Impacts	Mitigation Required
Palustrine Emergent Wetland	0.16 acres	0.32 acres
Streams	4,305 feet	4,305 feet
Riparian Habitat	0.84 acres	0.84 acres
Phase I Deficient Mitigation (Upland/Bottomland Forest)	8.00 acres	8.00 acres
Total Required		
Emergent Wetland	0.16 acres	0.32 acres
Streams	4,305 feet	4,305 feet
Riparian/Forest Habitat	8.84 acres	8.84 acres

Table 4. University Parkway Mitigation Offering Summary

Mitigation Activity	Mitigation Offered (acres)
Create Jurisdictional Emergent Wetlands	0.40 acres
Stream Channel Development/Enhancement*	4,322 feet
Conservation of Existing Vegetative Filter and Riparian Habitats	2.68 acres
Creation of Wooded Riparian Habitat	2.78 acres
Phase I Remediation (Bottomland/Upland Forests)	8.00 acres
Totals Mitigation Being Offered	
Emergent Wetland	0.40 acres
Stream Channel Development/Enhancement	4,322 feet (0.51 ac)
Riparian/Forest Habitat Creation	11.29 acres
Riparian Habitat Preservation	2.68 acres
Mitigation Site Total Acreage	14.37 acres

*Mitigation length includes 2,037 feet of stream channel development, 1,560 feet of Little Creek riparian enhancement, and 725 feet of in-place mitigation.

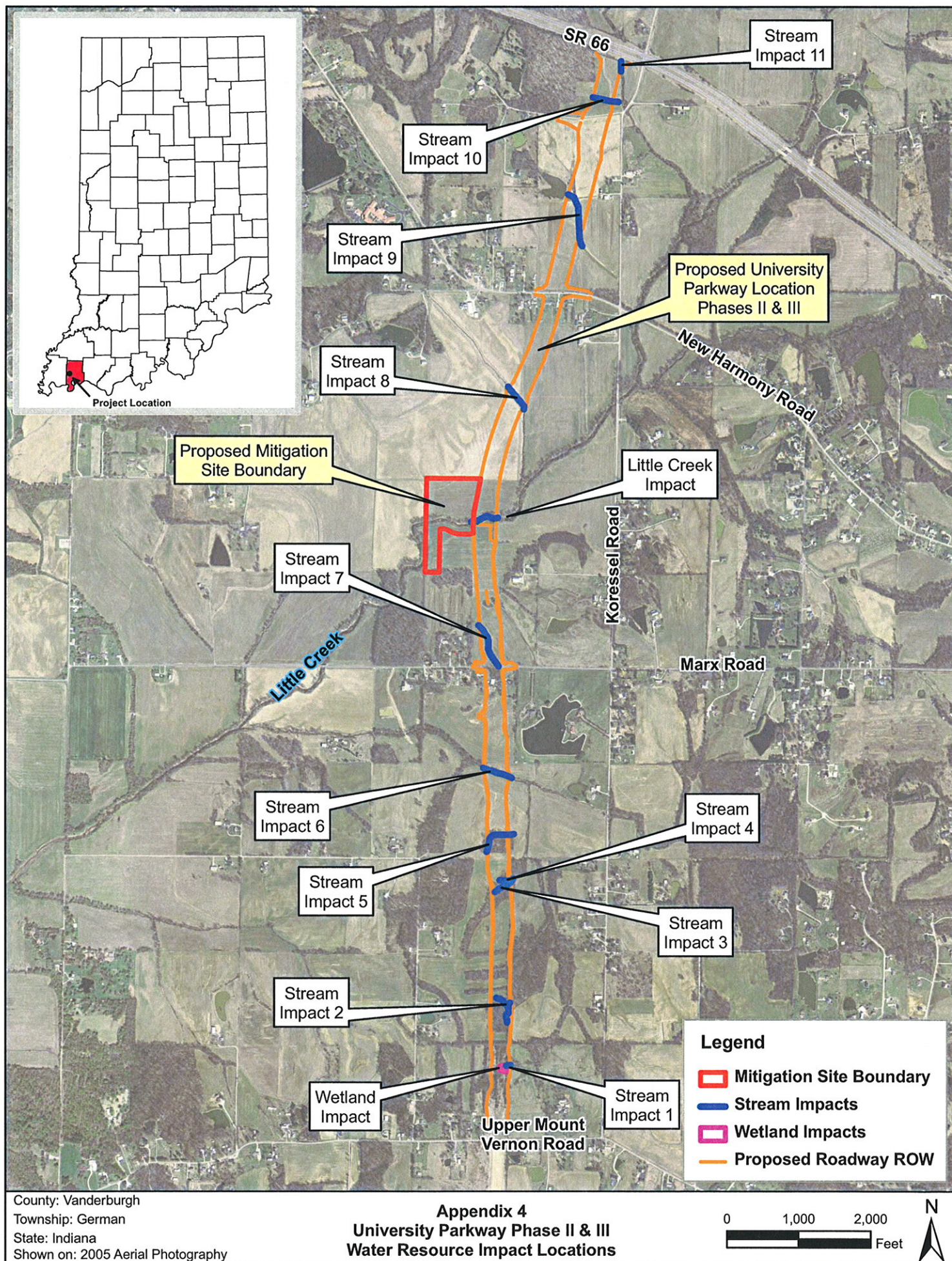


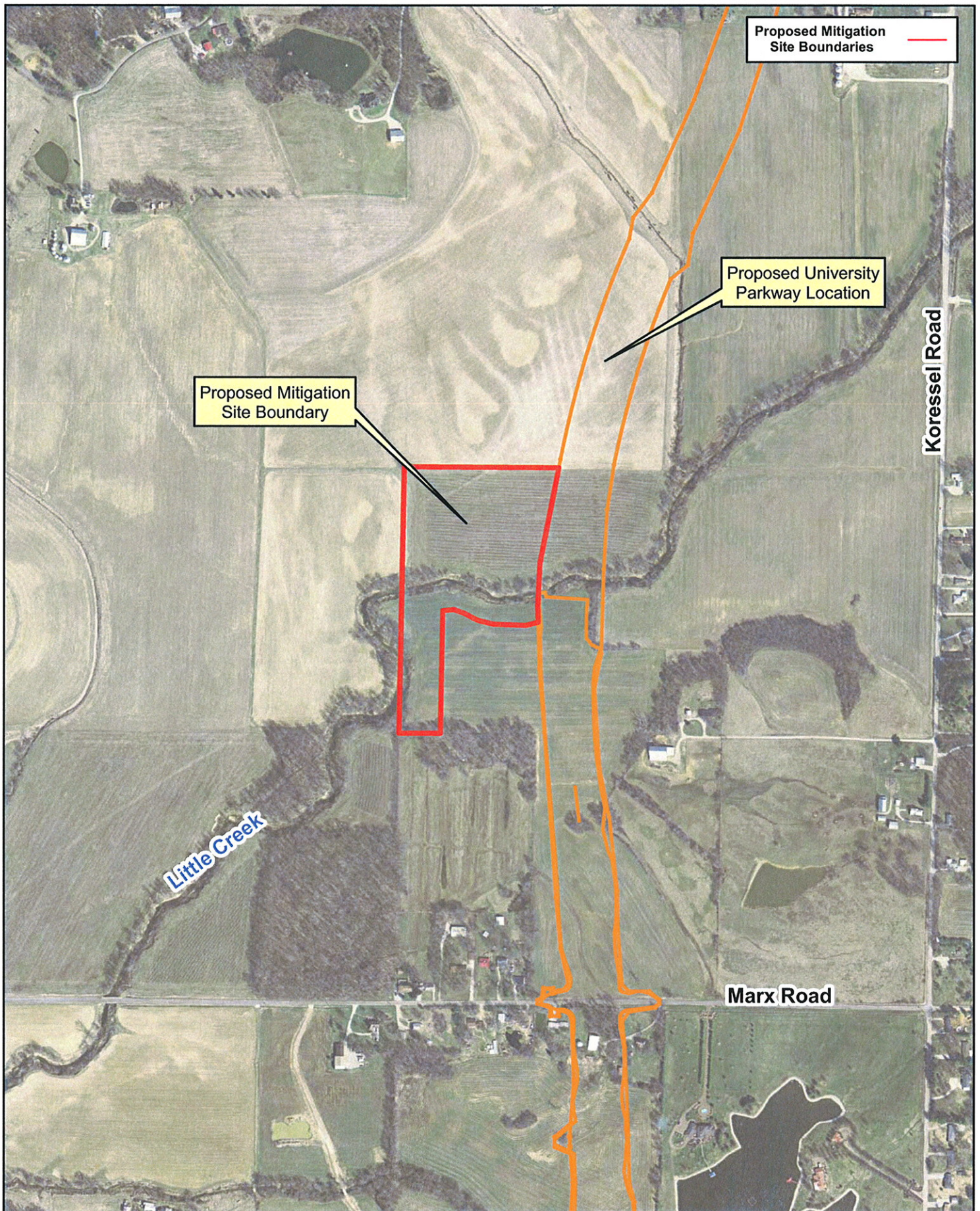
County: Vanderburgh
 Township: German
 State: Indiana
 Shown on: Kasson Quadrangle

Appendix 3 University Parkway Phase II & III Water Resource Impact Locations

0 1,000 2,000
 Feet





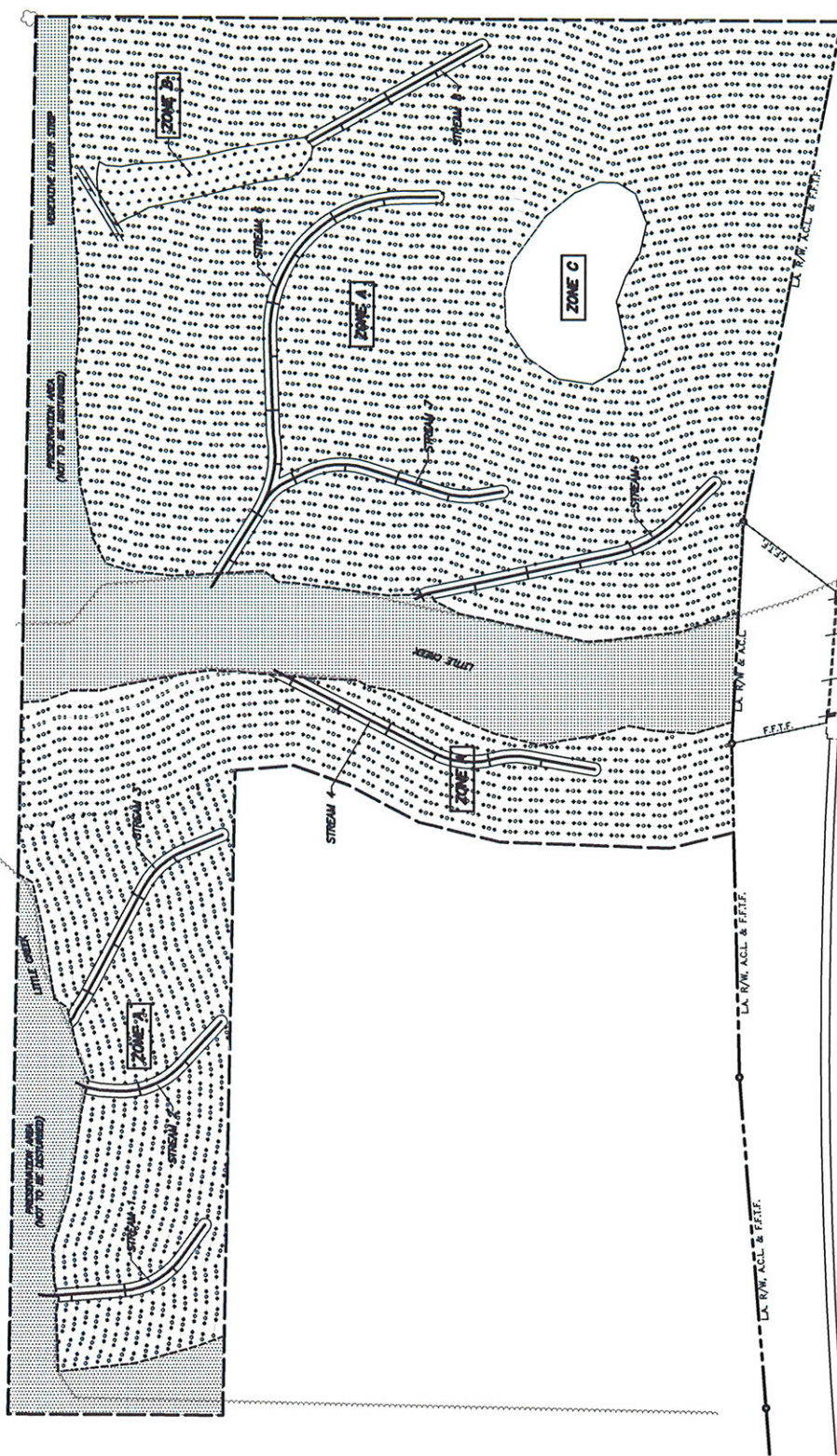


County: Vanderburgh
Township: German
State: Indiana
Shown on: 2005 Aerial Photo

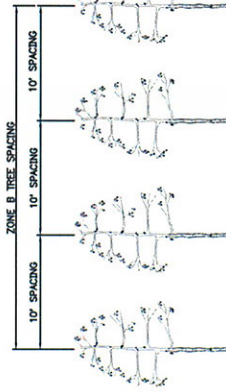
Appendix 7
Project Location Map
Proposed University Parkway Mitigation Site

1 inch = 600 feet
0 300 600
Feet



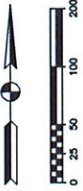


ZONE B TREE SPACING



TYPICAL ZONE B PLANTING ROW SEQUENCE
NOT TO SCALE

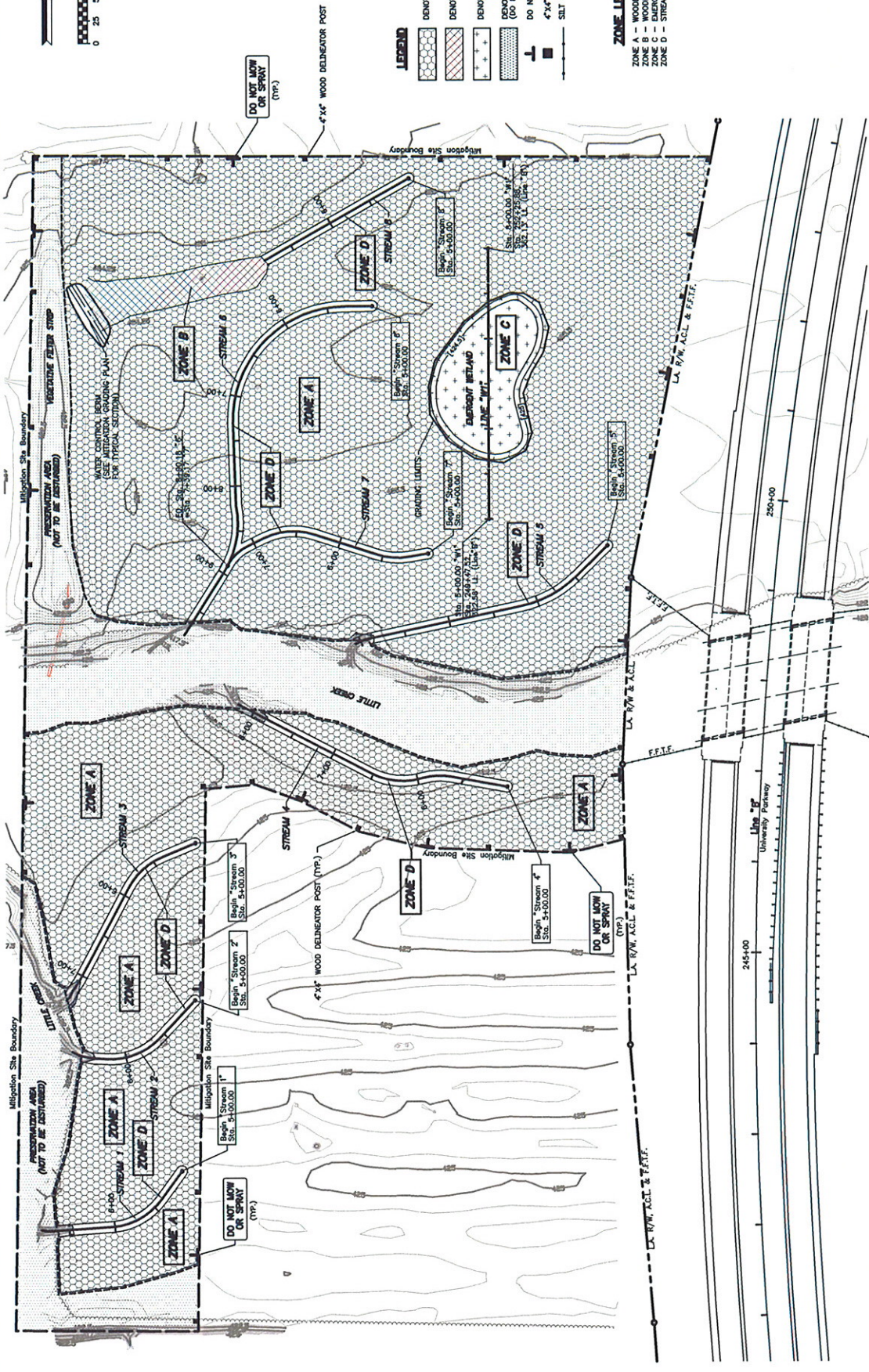
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> RECOMMENDED FOR APPROVAL _____ </div> <div style="border: 1px solid black; padding: 5px;"> DESIGN ENGINEER _____ DATE _____ </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> INDIANA DEPARTMENT OF TRANSPORTATION </div> <div style="border: 1px solid black; padding: 5px;"> PLANTING PLAN LAYOUT </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DESIGNED: JAO </div> <div style="border: 1px solid black; padding: 5px;"> CHECKED: MTR </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DRAWN: BEW </div> <div style="border: 1px solid black; padding: 5px;"> CHECKED: RMP </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> HORIZONTAL SCALE 1" = 50' </div> <div style="border: 1px solid black; padding: 5px;"> VERTICAL SCALE 1" = 10' </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BRIDGE FILE 1000143 </div> <div style="border: 1px solid black; padding: 5px;"> DESIGNATION 000143 </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SHEET NO. 14 </div> <div style="border: 1px solid black; padding: 5px;"> TOTAL SHEETS 73 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> PROJECT CONTRACT </div> <div style="border: 1px solid black; padding: 5px;"> SHEET NO. 14 </div>



- LEGEND**
- DENOTES ZONE "A"
 - DENOTES ZONE "B"
 - DENOTES ZONE "C"
 - DENOTES PRESERVATION AREA (DO NOT DISTURB)
 - DO NOT MOW SIGN
 - 4"x4" WOOD DELINEATOR POST
 - SILT FENCE

ZONE LEGEND

- ZONE A - WOODED RIPARIAN AREA
- ZONE B - WOODED RIPARIAN AREA
- ZONE C - WOODED RIPARIAN AREA
- ZONE D - STREAM CHANNEL



INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE	
SITE PLAN LAYOUT		DESIGNATION	
		SURVEY BOOK	
		SHEETS	
		PROJECT	
		CONTRACT	
		SIP-9982	
RECOMMENDED FOR APPROVAL		DATE	
DESIGNED BY		CHECKED BY	
DRAWN BY		DATE	
MTR		BMP	

Plant Species and Quantities per Zone

Zone A Wooded Riparian	Area:	10.60 acres	
	Elevation:	No excavation anticipated	
	Trees:	Bur Oak Pin Oak Shellbark Hickory Sweetgum Pecan	Number: 923 BR 923 BR 923 BR 923 BR 923 BR
	Shrubs:	Common Ninebark Black Chokeberry Common Spicebush Elderberry Pale Dogwood	Number: 462 BR 462 BR 462 BR 462 BR 462 BR
	Ground Cover:	Annual Ryegrass	Amount: 424.0 lbs
	Planting Guidelines:	Prior to tree and shrub planting, the planting of the Annual Ryegrass shall be by broadcast spreading at a rate of 40.00 lbs/acre followed by mulching and watering. Bare root tree seedlings are to be mechanically planted with 10 foot spacing. Bare root shrub seedlings are to be mechanically planted midway between every other tree seedling. Both trees and shrubs shall be planted randomly and equally throughout the zone in regards to species. Planting rows shall follow the patterns specified in the plans.	
Zone B Wooded Bottomland Cypress Grove	Area:	0.18 acres	
	Elevation:	No excavation anticipated	
	Trees:	Bald Cypress	Number: 80 BR
	Ground Cover:	Annual Ryegrass	Amount: 7.2 lbs
	Planting Guidelines:	Prior to tree planting, the planting of the Annual Ryegrass shall be by broadcast spreading at a rate of 40.00 lbs/acre followed by mulching and watering. Bare root tree seedlings are to be mechanically	
		planted with 10 foot spacing. Planting rows shall follow the patterns specified in the plans.	
Zone C Emergent Wetland	Area:	0.40 acres	
	Elevation:	~424.5 to 425.5 feet	
	Ground Cover:	Emergent Wetland Seed Mix	
	Planting Guidelines:	Planting of the Emergent Wetland Seed Mix shall be by broadcast spreading at a rate of 34.78 lbs/acre followed by mulching and watering.	
Zone D Stream Channel Development	Area:	0.51 acres	
	Elevation:	See Appendix 9 (Design Plans)	
	Ground Cover:	Swale Seed Mix	Amount: 14.2 lbs
	Planting Guidelines:	Planting of the Swale Seed Mix shall be by broadcast spreading at a rate of 27.72 lbs/acre followed by application of coconut fiber matting and watering.	